

FIG. 1A

Human	1	M I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K W V S R T E G N I D D S L I G G	50
Rabbit (98%)	1	M I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K W V S R T E G N I D D S L I G G	50
Mouse (95%)	1	M I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K W V S R T E G N I D D S L I G G	50
Chicken (90%)	1	M I Y R D L I S Q D E M F S D I Y K I R E I A N G L C L E V E G K W V I R T E G Q I D D S L I G G	50
D. melanogaster (50%)	1	M K I Y K D I S D O E M F A D T Y K W - V D D D L V Y E F K G K H V V R K E G E I - - V L A G S	47
C. elegans (40%)	1	M L I Y K D I S D O E M F S P M - V D D D L V Y E F K G K H V V R K E G E I - - V L A G S	47
S. cerevisiae (42%)	1	M I Y D I S D E E S D A Y D O R - - D D D L V Y E D G A M V N V G G D N I D - - - I G A	46
Rice (35%)	1	M I Y D I S D E E S D F P Y R E T - - D D D L V Y E D G A M V N V G G D N I D - - - I G A	47
Human	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - F T K E A - - Y K K Y I K D Y M K S I K	100
Rabbit	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - F T K E A - - Y K K Y I K D Y M K S I K	100
Mouse	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - F T K E A - - Y K K Y I K D Y M K S I K	100
Chicken	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - F T K E A - - Y K K Y I K D Y M K S I K	100
D. melanogaster	43	N A S A E A D - E G - - T R I T I S E G V D I V M N H H L Q E C F - - F G D K K S Y T L Y E K D Y M K A I K	100
C. elegans	43	N A S A E E G A E D D - G S D E H V E R G D I V M N H H L Q E C F - - F G D K K S Y T L Y E K D Y M K A I K	98
S. cerevisiae	47	N A S A E - G C - - D D D V E E G A E V N - N I V H F R L Q C T A - F D K K S - - F L T Y I K G Y M K A K	100
Rice	48	N A S A E - G C - - D D D V E E G A E V N - N I V H F R L Q C E Q P F D K K Q - - F V T F M K R Y I K N S	95
Human	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Rabbit	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Mouse	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Chicken	101	G K L E E K S P Q - - V D F K T N N K A N K D I L S - - R F K E I Q F F I G E S M - - D G D G M V A L L D	150
D. melanogaster	98	K L Q E T N P E E - - V P K F E K G A Q T V V K K I C - - S F K D W E F F T G E S M - - D P D A M V V L N	145
C. elegans	101	D M E K N I N D Q A D V D A F K K K Q G W V S L A K D R F K N L A F F I G E R X A E G A E N G Q V A I E	157
S. cerevisiae	96	K L Q E T N P E E - - V P K F E K G A Q T V V K K I C - - S F K D W E F F T G E S M - - D P D A M V V L N	145
Rice	100	K L Q E T N P E E - - V P K F E K G A Q T V V K K I C - - S F K D W E F F T G E S M - - D P D A M V V L N	146
Human	151	Y R E - D G V - T P Y M I F F K D G L E M E K C (NP_003286)	172
Rabbit	151	Y R E - D G V - T P F M I F F K D G L E M E K C (CAA12510)	172
Mouse	151	Y R E - D G V - T P F M I F F K D G L E M E K C (P_14701)	172
Chicken	151	Y R E - D G V - T P Y M I F F K D G L E M E K C (P_43347)	172
D. melanogaster	149	Y R E I N G D S V P V L I F F K H G L E F E K C (AE003690)	172
C. elegans	158	Y R D V D G T E V P T E V K E A T E E K C (Z79754)	182
S. cerevisiae	146	Y R E - D G T - T P F V D V K H G V E E K C (P_35591)	166
Rice	147	Y K D - G A T - D P T E L Y F S H G L K E V K C (P_35681)	168

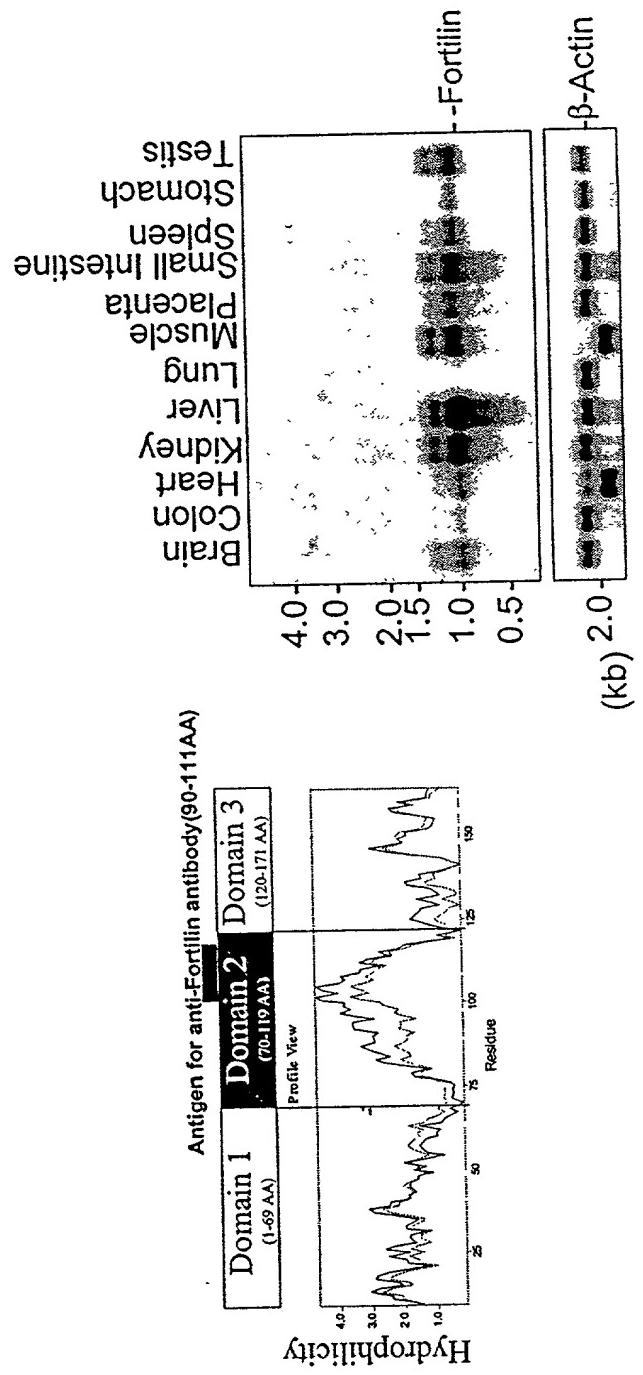


FIG. 1C

FIG. 2A

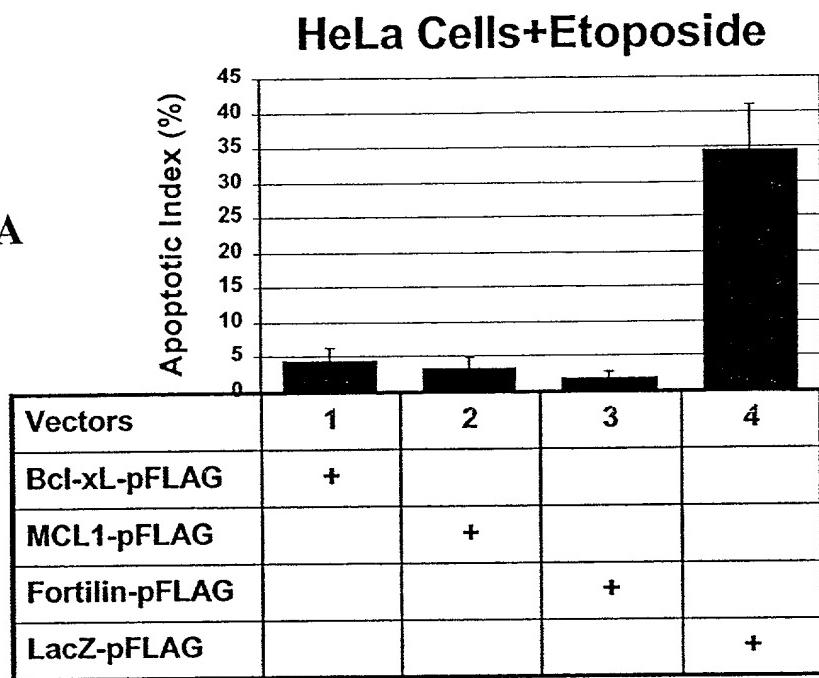
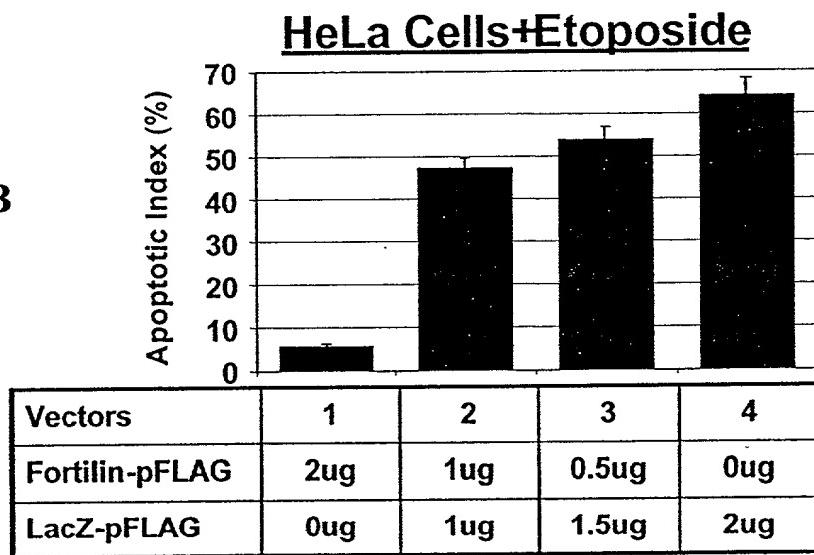


FIG. 2B



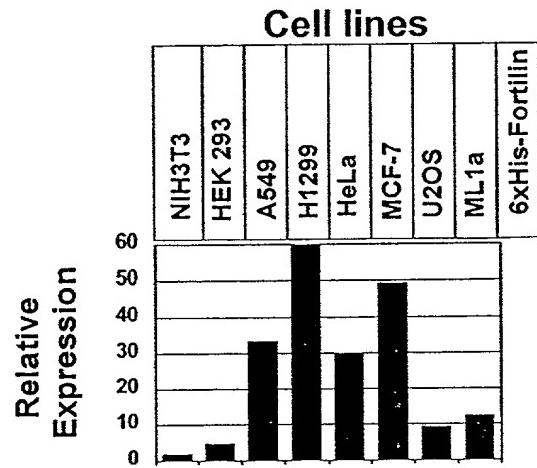


FIG. 3

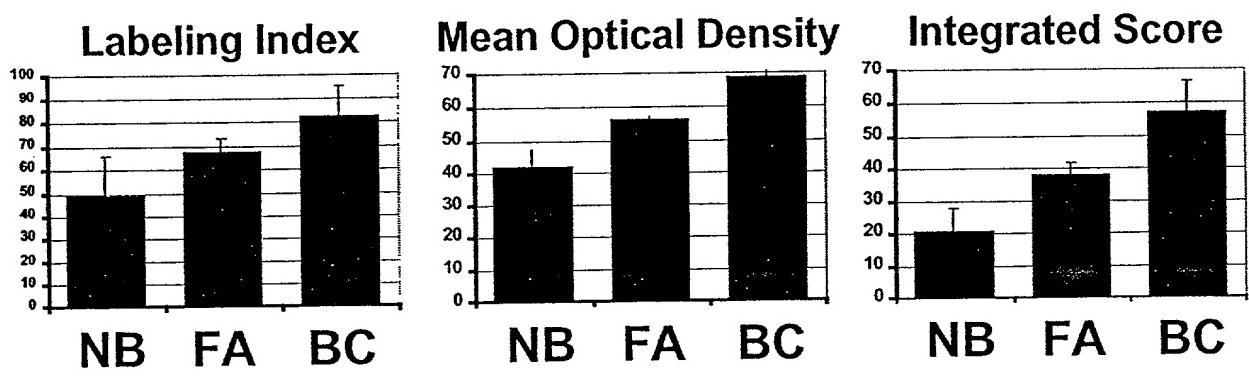


FIG. 4

H1299 Cells

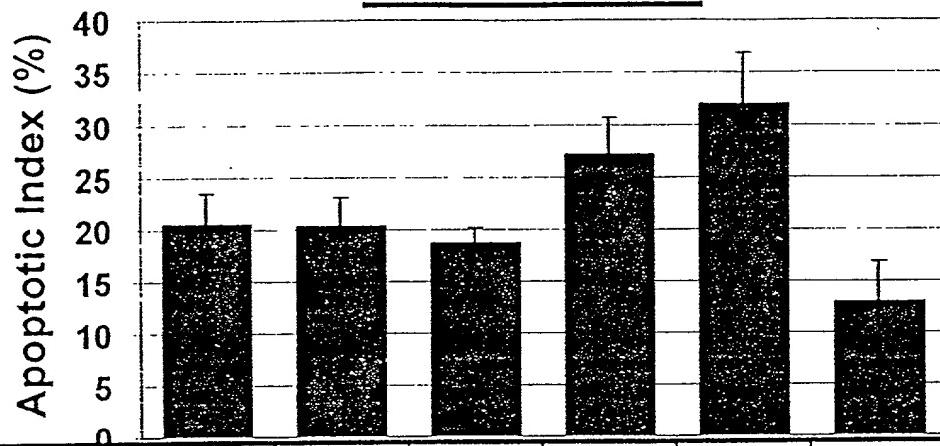


FIG. 5

FIG. 6A

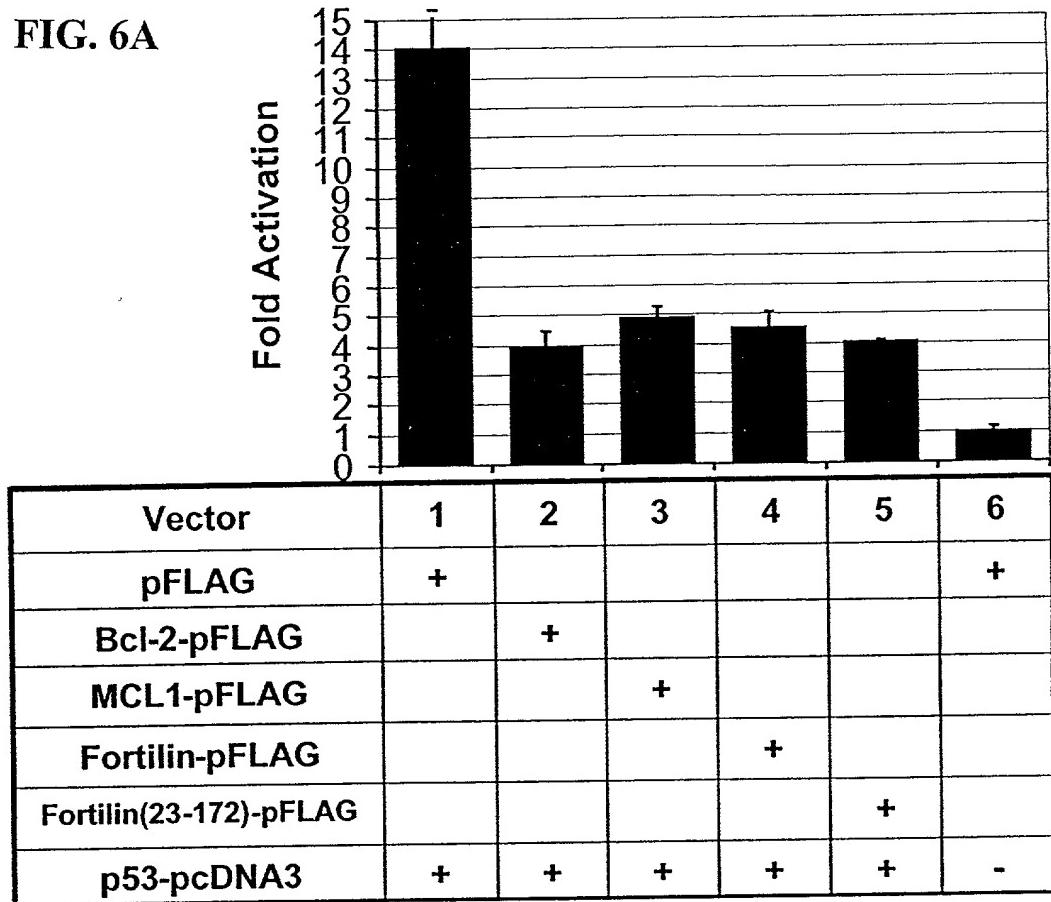
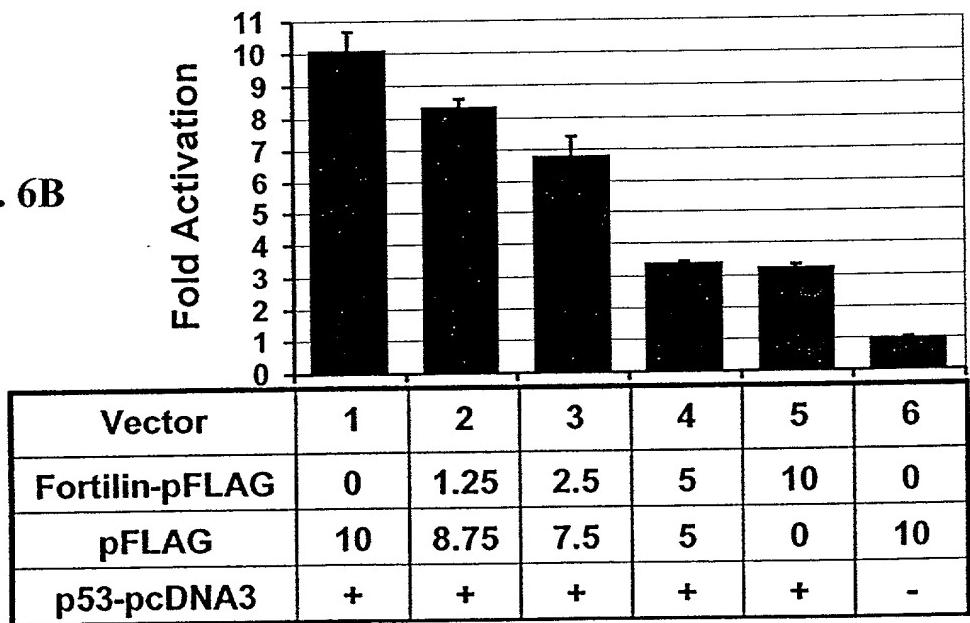


FIG. 6B



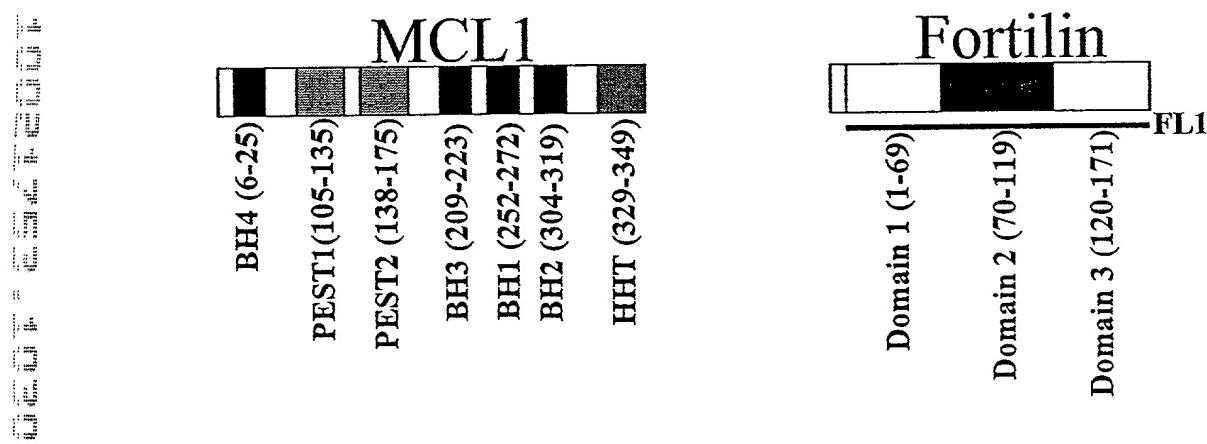
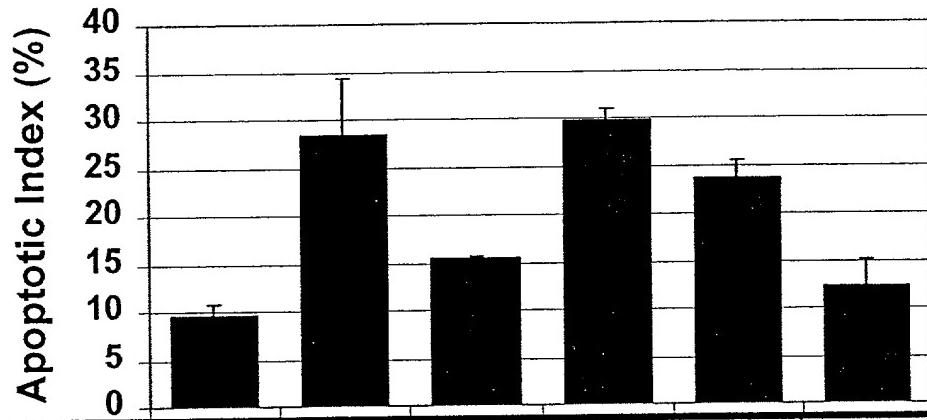


FIG. 7



Vector	1	2	3	4	5	6
MCL1-pFLAG	+					
Bcl-2-pFLAG			+			
Fortilin-pFLAG				+		
Fortilin(23-172)-pFLAG					+	
pFLAG					+	+
Bax-pcDNA3	+	+	+	+	+	-

FIG. 8

FIG. 9A

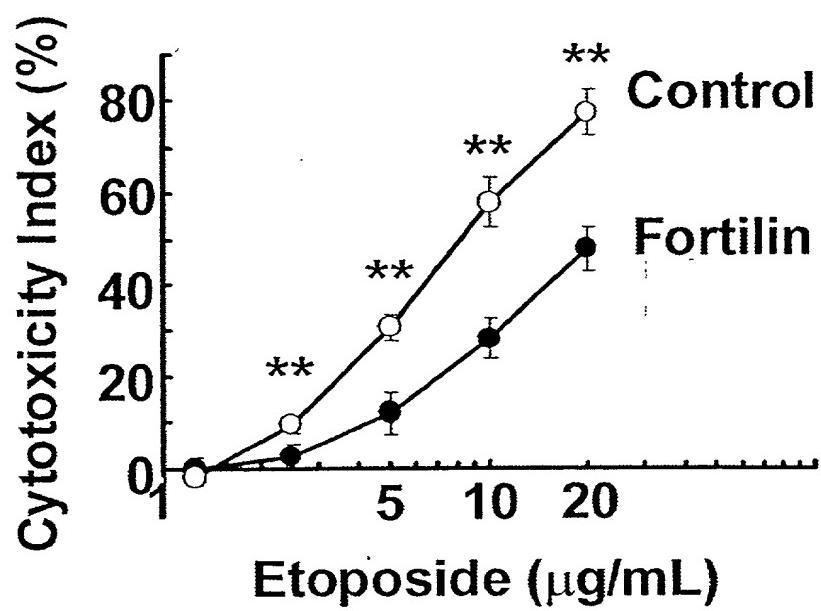


FIG.9B

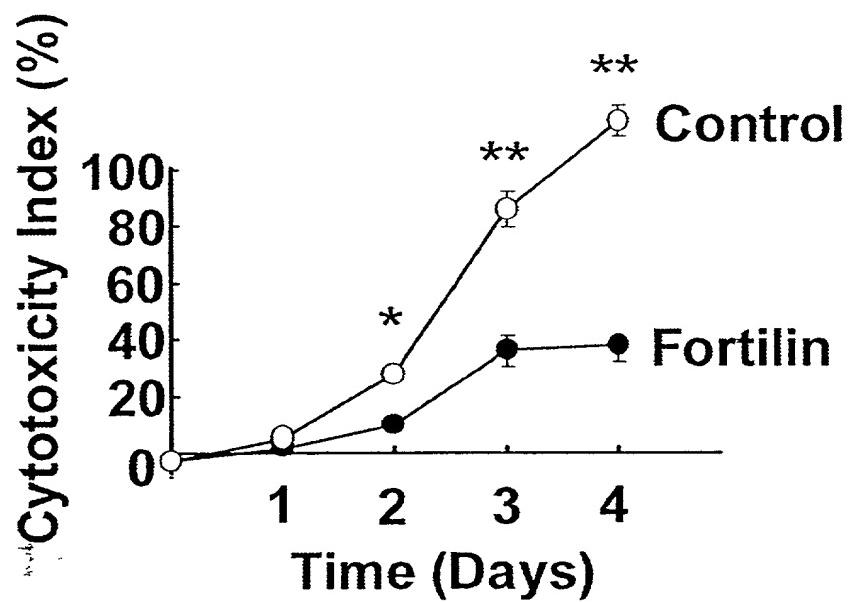


FIG. 10A

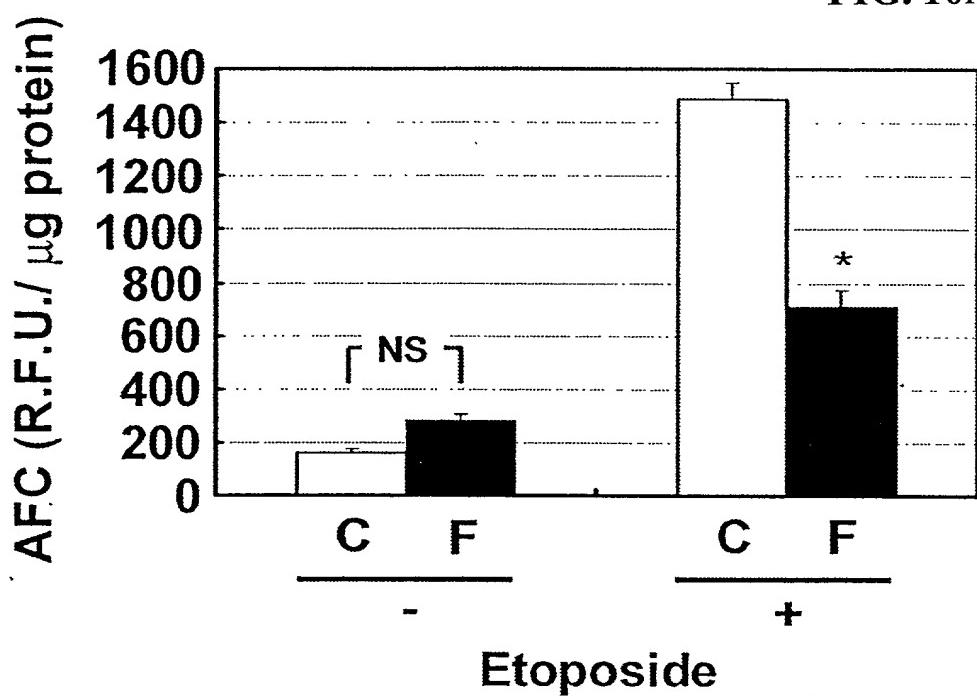
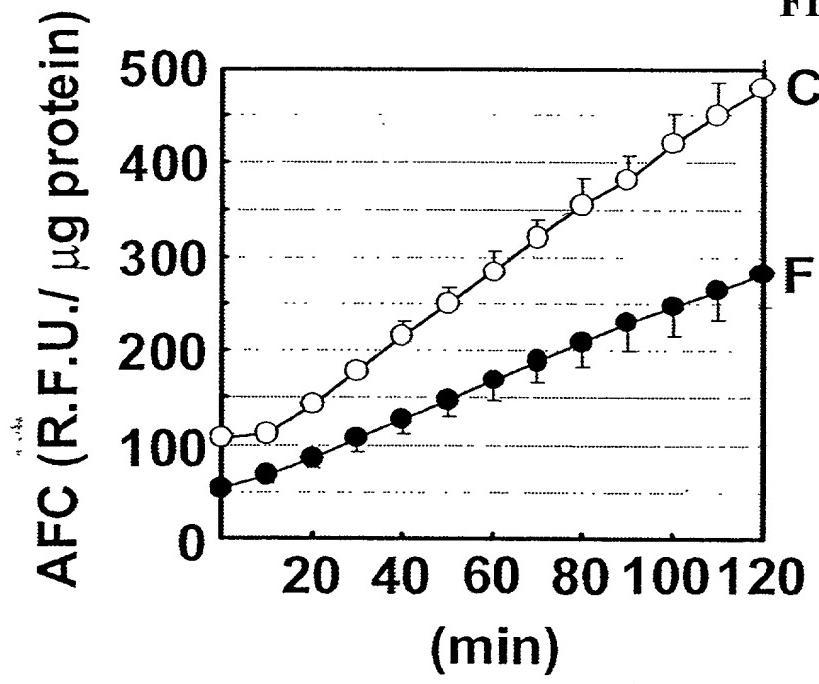


FIG. 10B



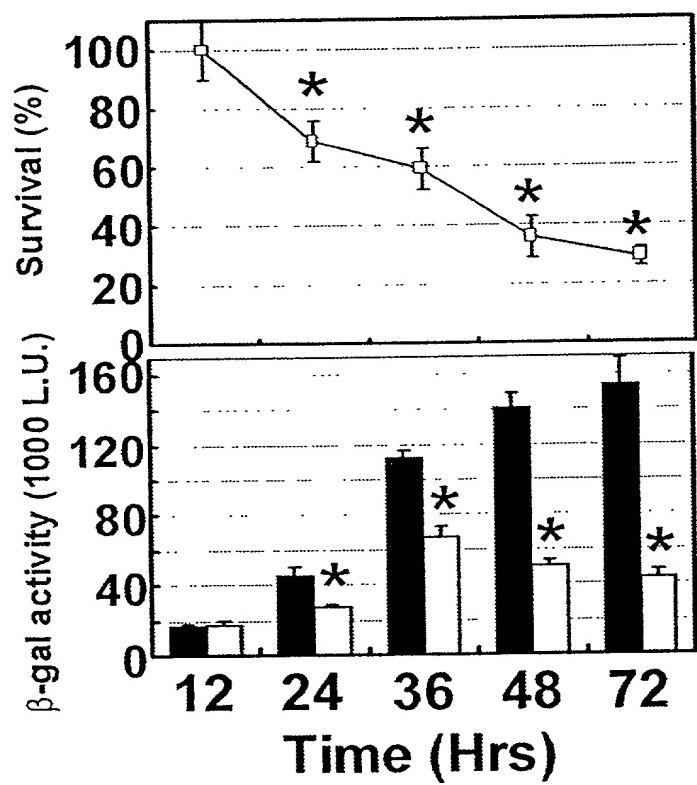


FIG. 11

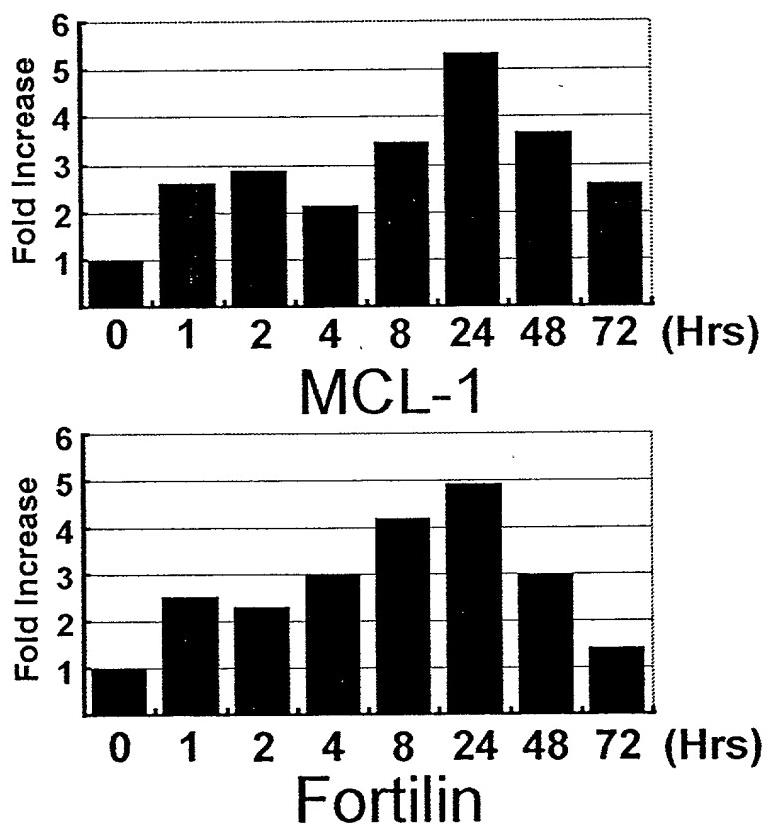


FIG. 12

**MCL1
Expression
Index**

**Fortilin
Expression
Index**

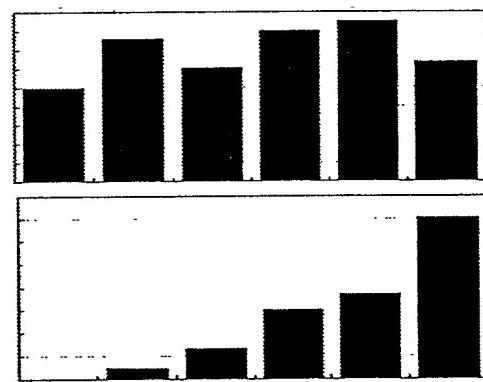


FIG. 13

MCL1 binding

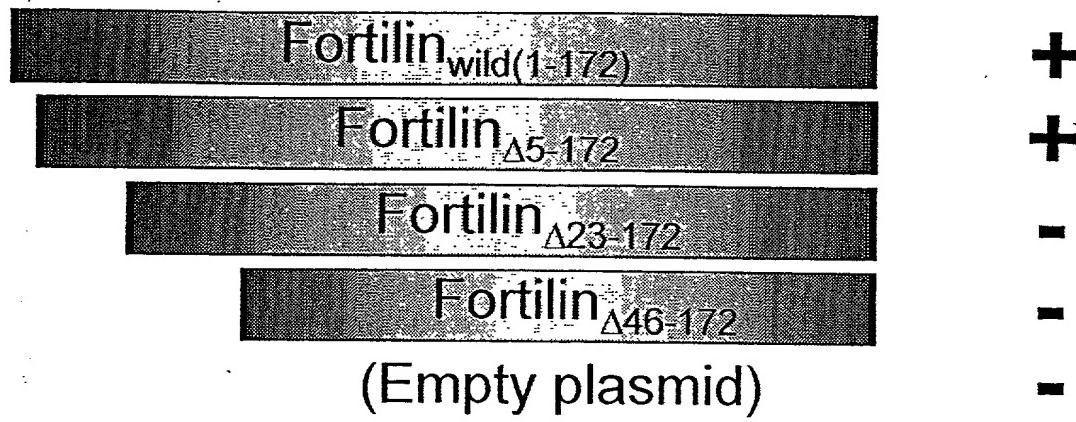


FIG. 14

MCL1 Expression Index

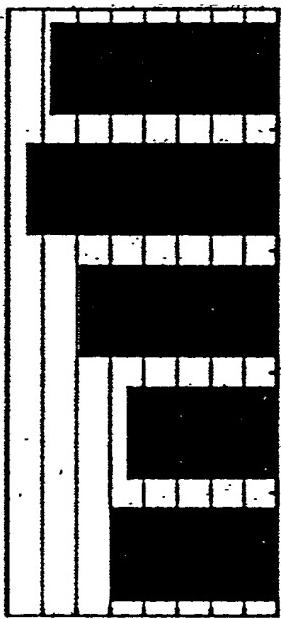


FIG. 15

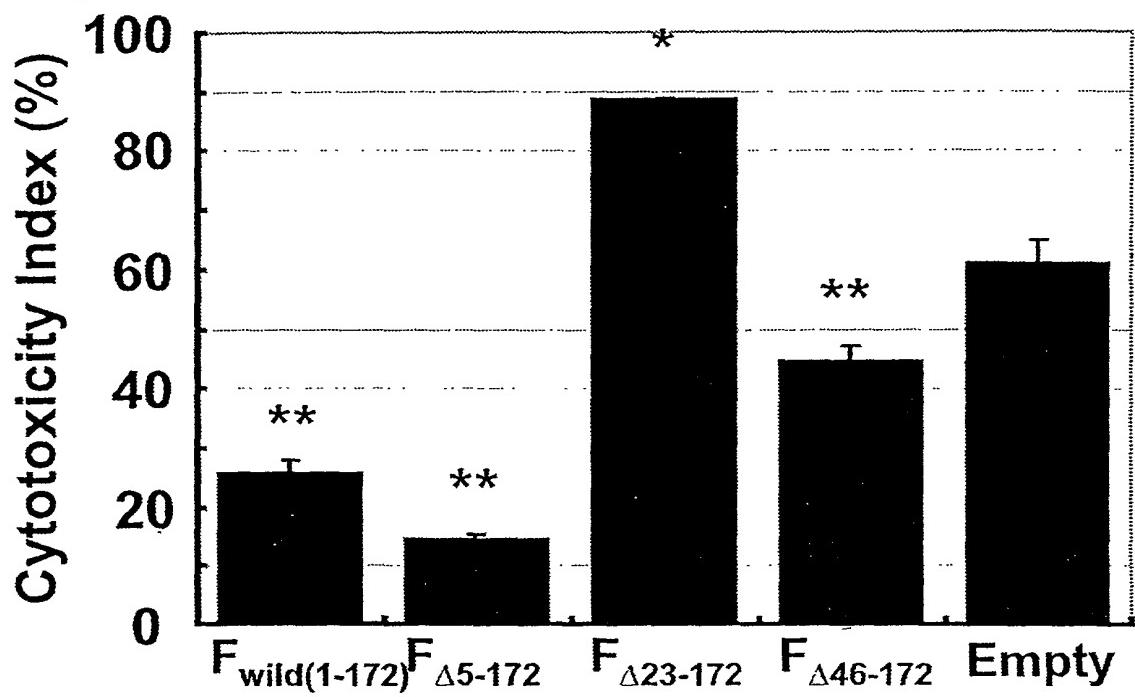


FIG. 16